SUBRAMANIYAM VENKATA POONI

Chief Architect, Agentic Intelligence

Building Agentic LLM Systems with LangChain, Multi-Agent RAG, and Agent-Based Reasoning

AP2 | SLIM | X-A2A | LLMOps | Scalable AI Inference | Compilers: MLIR, LLVM, WASM

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January 10, 2026

To Whomsoever It May Concern,

I am writing to express my strong interest in contributing to your organization as a technology leader focused on Agentic AI, distributed systems, and enterprise architecture. With over 31 years of experience spanning AI/ML, cloud infrastructure, and systems engineering—including 6 US patents and 2 successful exits—I bring a unique combination of deep technical expertise and proven business impact.

In my current role as Chief Architect at CSSQUAREDB Technologies, I lead the development of Multi-Stack GenAI solutions on cutting-edge hardware including DGX/HGX B200 and MI-350x. I architect agent systems using LangChain, LangGraph, Google ADK, and Anthropic MCP, and design Agentic RAG pipelines for enterprise LLM hosting. Previously at Broadcom (VMware), I delivered the Private AI Foundation with NVIDIA (PAIF-N), achieving 3× throughput improvement on MLPerf benchmarks and driving over $50M in enterprise deals.

My track record includes significant achievements across multiple domains: I architected the DISH 5G Open RAN deployment covering 7,800+ sites and 70% of US population; led SONiCS platform evolution at Futurewei to support 1M+ FaaS invocations daily; and transformed a 500+ engineer organization at A10 Networks to DevOps practices, achieving 3× faster releases. My patents in storage networking technology at HP have been foundational to enterprise storage systems.

What distinguishes my approach is the combination of hands-on technical depth with strategic vision. I am equally comfortable optimizing CUDA kernels on H100 GPUs, designing compiler backends using LLVM/MLIR, and presenting to C-level executives. My recent projects include building custom interpreters in Rust, implementing distributed consensus with Raft, and developing MLIR-based compilers for WebAssembly edge inference.

I am excited about the opportunity to bring my expertise in Agentic AI systems, HPC optimization, and enterprise architecture to your team. I would welcome the chance to discuss how my experience building and scaling AI platforms can contribute to your organization's success.

Thank you for your consideration.

Sincerely,

Subramaniyam Venkata Pooni
Chief Architect, Agentic Intelligence

US Citizen